BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Diploma in Agriculture Pearson BTEC International Level 3 Extended Diploma in Agriculture
Unit number and title	Unit 21: Root Crop and Field Vegetable Production
Learning aims	**B** Explore the processing and quality requirements for marketing root crops and field vegetables **C** Carry out husbandry tasks related to root crops and field vegetables
Assignment title	**Processing and Practical Husbandry**
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You are part of the farms management team and have been asked to deliver a presentation and undertake practical training on processing and quality requirements of root crops and field vegetables, along with Practical Husbandry, to a group of agriculture students who have come to learn about these processes 'on' farm for practical experience.
Task 1	You are required to prepare a presentation in a suitable format and deliver this presentation to the group. Your presentation should focus on giving an in-depth evaluation of the processing of one root crop and one field vegetable. You will consider thoroughly all the relevant stages, from when the crops are marketed on the farm and through the relevant processing plant. You will also include an include; • an accurate breakdown of the processing of root crops and field vegetables • information on the harvesting, storing and processing of crops • crop quality requirements and how these affect the end use of the product • Market specifications • Transporting • Biosecurity.
Checklist of evidence required	Presentation

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
B.D2	Evaluate the impact of quality requirements and production targets on the processing and marketing of root crops and field vegetables.
B.M3	Assess the importance of quality requirements and production targets in processing and marketing root crops and field vegetables.
B.P4	Explain the key marketing requirements of root crops and field vegetables, including production targets
B.P3	Explain the key aspects in processing root crops and field vegetables to meet quality requirements

Task 2	You will carry out a range of practical activities to demonstrate knowledge, understanding and skills with root crop and field vegetable production. You must carry out the

	following activities and record these in an appropriate practical activities' logbook for one root crop and one field vegetable crop; • Plan timings, schedules and time management in carrying out husbandry activities. • Soil and seedbed preparation and cultivation • Crop protection • Irrigation • Monitoring growth and development • Harvesting • Appropriate disposal of waste • Apply fertiliser and calculate fertiliser rates and yield map • Weed, pest and disease identification and control. Detailed and accurate records as appropriate to the work undertaken should be included in the log book.
Checklist of evidence required	Practical logbook of activities undertaken, observation records.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria, you must show that you are able to:
C.D3	Carry out husbandry tasks with a high degree of accuracy to promote growth and development of root crops and field vegetables, including nutrient application and crop protection tasks.
C.M5	Efficiently carry out nutrient application and crop protection methods on root crops and field vegetables to meet given objectives.
C.M4	Efficiently carry out husbandry tasks to promote growth and development of root crops and field vegetables.
C.P6	Competently carry out nutrient application and crop protection methods to meet given objectives for root crops and field vegetables.
C.P5	Competently carry out husbandry tasks to promote growth and development of root crops and field vegetables.

Sources of information to support you with this Assignment	**Books** Finch, S. Samuel, A. Lane, G. (2014). *Lockhart & Wiseman's Crop Husbandry Including Grassland (Woodhead Publishing Series in Food Science, Technology and Nutrition)*. 9th ed. London: Woodhead Publishing. White. R (2005). *Principles and Practice of Soil Science: The Soil as a Natural Resource*. 4th ed. London: Wiley-Blackwell. Warren, J. (2015). *Nature of Crops, The How we came to eat the plants we do*. Aberystwyth University: CABI Publishing. **Journals/Magazines** Farmers weekly Farmers Guardian **Websites** www.sciencedirect.com